

## Product datasheet for **RG209277**

### CAVIN1 (NM\_012232) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CAVIN1 (NM_012232) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAVIN1
Synonyms:	CAVIN; cavin-1; CGL4; FKSG13; PTRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209277 representing NM_012232 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGACCCACGCTCTATATTGTCGAGCGGCCGCTTCCCGGTACCCGACGCCGAGGCCCGGAGC  
CTTCTCCGCTGGGGCTCAGGCAGCGGAGGAGCCGTCGGGGCCGGCTCAGAAGAGCTGATCAAGTCGGA  
CCAGGTGAACGGCGTGTGGTGTGAGCCTCTGGACAAAATCATCGGGCCGTAGACCAGATCCAGCTG  
ACTCAAGCACAGCTGGAGGAGCGCAGGCGGAGATGGAGGGCGCAGTGCAGAGCATCCAGGGCGAGCTGA  
GCAAGCTGGGCAAGGCGCACGCCACCACGAGCAATACGGTGAGCAAGCTGCTGGAGAAGGTGCGCAAGGT  
CAGCGTCAACGTGAAGACCGTGC GCGGACGCTGGAGCGCCAGGCGGGCAGATCAAGAAGCTGGAGGTC  
AACGAGGCCGAGCTGCTGCGGCGCCGCAACTTTAAAGTCATGATCTACCAGGATGAAGTGAAGCTGCCGG  
CCAAACTGAGCATCAGCAATCGCTGAAAGAGTCGGAGGCGCTGCCAGAGAAGGAGGGCGAGGAGCTGGG  
CGAGGGCGAGCGGCCGAGGAGGACGCAGCGGCGCTGGAGCTTTCGTCGGACGAGGCGGTGGAGGTTGAG  
GAGGTTATTGAGGAGTCCCGCGCAGAGCGTATCAAGCGCAGCGGCTGCGGCGCTGGACGACTTCAAGA  
AGGCCTTCTCAAGGAGAAGATGGAGAAGACCAAGGTGCGTACCCGCGAGAACCTGGAGAAGACGCGCCT  
CAAGACCAAGGAAAACCTGGAGAAGACGCGGCACACCTTGAGAAGCGCATGAACAAGCTGGGCACGCGC  
CTGGTCCCGCCGAGCGGCGGAGAAAACCTGAAGACGTCGCGAGACAAGTTGCGCAATCTTCACGCCCG  
ACCACGTGGTGTACGCGGCTCCAAGACCGGCTACAAGGTGCCACCTTACCTTCCAGTCAAGAA  
GATCCGCGAGGGCCAGGTGGAAGTGCTCAAGGCCACCGAGATGGTGGAGGTGGGCGCCGACGACGACGAG  
GGCGGCGCGAGCGGGGAGGCCGCGACCTGCGGCGCGGGAGCAGCCCGACGTGCACGCGCTGCTGG  
AGATCACCGAGGAGTCGGACGCGTGTGGTGGACAAGAGCGACAGCGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209277 representing NM\_012232  
 Red=Cloning site Green=Tags(s)

MEDPTLYIVERPLPGYPDAEAEPEPSSAGAQAEEPSGAGSEELIKSDQVNGVLVLSLLDKIIGAVDQIQL  
 TQAQLEERQAEMEGAVQSIQGELSKLGAHATTSNTVSKLLEKVRKVSVNKTVRGLERQAGQIKKLEV  
 NEAELLRRRNFKVMIYQDEVKLPKLSISKSLKESEALPEKEGEELGEGERPEEDAAALELSSDEAVEVE  
 EVIEESRAERIKRSGLRRVDDFKKAFSKEKMEKTKVRTRENLEKTRLKTKENLEKTRHTLEKRMNKLGTR  
 LVPAERREKLKTSRDKLKRSFTPDHVYARSKTAVYKVPFFTFFHVKKIREGQVEVLKATEMVEVGADDDE  
 GGAERGEAGDLRRGSSPDVHALLEITEESDAVLVDKSDSD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012232

**ORF Size:** 1170 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_012232.3](#)

**RefSeq Size:** 3580 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 284119

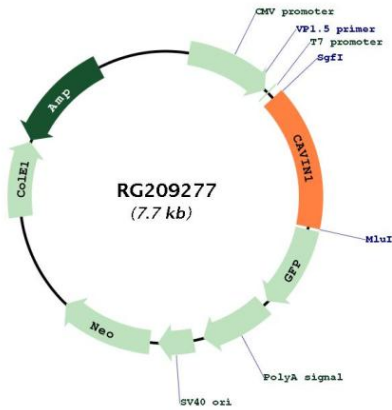
**UniProt ID:** [Q6NZI2](#)

**Cytogenetics:** 17q21.2

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a protein that enables the dissociation of paused ternary polymerase I transcription complexes from the 3' end of pre-rRNA transcripts. This protein regulates rRNA transcription by promoting the dissociation of transcription complexes and the reinitiation of polymerase I on nascent rRNA transcripts. This protein also localizes to caveolae at the plasma membrane and is thought to play a critical role in the formation of caveolae and the stabilization of caveolins. This protein translocates from caveolae to the cytoplasm after insulin stimulation. Caveolae contain truncated forms of this protein and may be the site of phosphorylation-dependent proteolysis. This protein is also thought to modify lipid metabolism and insulin-regulated gene expression. Mutations in this gene result in a disorder characterized by generalized lipodystrophy and muscular dystrophy. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RG209277